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December 11, 2020

**VIA ELECTRONIC FILING**

The Honorable Jocelyn G. Boyd  
Chief Clerk and Executive Director  
Public Service Commission of South Carolina  
101 Executive Center Drive, Suite 100  
Columbia, SC 29210

**Re: Joint Petition of Duke Energy Carolinas, LLC and Duke Energy Progress, LLC to Establish a Consolidated Informational Docket for Review and Consideration of Grid Improvement Plans (NDI Opened Pursuant to Commission Order No. 2020-533) Docket No. ND-2020-28-E**

**Informational Update on Stakeholder Meeting Held December 2, 2020**

Dear Ms. Boyd:

On August 12, 2020, by Order 2020-533 in Docket No. 2019-381-E, the Commission approved Duke Energy Carolinas, LLC's ("DEC") and Duke Energy Progress, LLC's ("DEP") (collectively, the "Companies") joint request to establish an informational docket for review and consideration of its Grid Improvement Plan ("GIP"). As a result of that order, on August 14, 2020, the Commission opened the above-referenced NDI docket.

On October 26, 2020, the Companies filed the 2019 GIP Status Report for DEC and DEP. This report showed how the Companies are performing in terms of program costs and units compared to its targets.

On December 2, 2020, the Companies held a Grid Improvement Plan virtual forum. During this forum, subject matter experts discussed 2019 program spending compared to target as submitted in the 2019 SC GIP Status Report and were available for additional questions. A survey was sent to participants after the forum to learn what other topics would be of interest to participants in future engagements.

The following attachments enclosed with this update provide additional information on the virtual forum.

- Attachment A: Invitation to Virtual Forum
- Attachment B: List of Invitees
- Attachment C: List of Attendees

- Attachment D: 2019 Status Report Forum Presentation

The Companies will continue to inform stakeholders, the ORS and the Commission on developments in the Companies' GIPs.

Sincerely,



Heather Shirley Smith

Attachments

cc: (via email w/ enclosure)

Counsel for Office of Regulatory Staff  
Department of Consumer Affairs  
Counsel for Sierra Club  
Counsel for Walmart, Inc.  
Counsel for SELC on behalf of SC NAACP, SCCCL & Upstate Forever  
Counsel for Nucor Steel-South Carolina  
Counsel for SCSBA and Cypress Creek Renewables  
Counsel for SCEUC  
Counsel for Vote Solar  
Counsel for CMC Recycling  
Hasala Dharmawardena

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**From:** Davidson, Hilary

**Sent:** Friday, November 6, 2020 9:26 AM

**Subject:** You are invited! 12/2 Duke Energy Virtual Forum - SC Grid Improvement Plans 2019 Status Report

Good morning,

Duke Energy's Grid Improvement Plan (GIP) is underway in South Carolina, and we'd like to invite you to a virtual forum that we are hosting on December 2, 2020 from 1:00 – 2:00 p.m. The purpose of the forum is to update you all on the progress we have made to date on the Grid Improvement Plan, listen to your feedback and respond to any questions that you may have.

Many of you participated in our stakeholder Grid forums in 2018 and 2019, but for those of you who are newcomers to the GIP stakeholder engagement process, Duke Energy will provide a brief recap of the history of its GIP development and filings as part of the planned agenda below.

Meeting Agenda:

- Recap of GIP filings with the PSC
- Refresher on GIP programs
- Review of [2019 SC GIP Status Report](#) with Q&A
- What's Next for GIP?

Your input in advance of the meeting would be much appreciated to make sure that we are covering topics of interest and are prepared to answer your questions. As part of the registration process, we have included a few brief questions.

If you wish to participate in the virtual forum, we ask that you **please register by Wednesday November 25 using this link:** [https://reg.abcsignup.com/view/view\\_month.aspx?as=29&wp=574&aid=DUK](https://reg.abcsignup.com/view/view_month.aspx?as=29&wp=574&aid=DUK)

If you need assistance with registration, please email: [Eventsupport@duke-energy.com](mailto:Eventsupport@duke-energy.com). If you have other questions or suggestions about Duke Energy's grid improvement plan, please feel free to email us anytime at [GIP-Engagement@duke-energy.com](mailto:GIP-Engagement@duke-energy.com).

Thank you in advance for your interest in Duke Energy's grid improvement plan, and we hope that you will join us on Dec. 2 .

Sincerely,

Hilary S. Davidson  
Director, Stakeholder Engagement

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[Duke Energy COVID-19 Updates](#)  
[Duke Energy Sustainability Report](#)  
[Duke Energy Climate Report](#)

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**Record of Attendance  
SC Grid Improvement Plans Virtual Forum  
December 2, 2020**

<b>Name</b>	<b>Affiliation</b>	<b>Attendance</b>
Justin C. Brown	Duke Energy	Present
Christina Cress	CIGFUR I/II/III	Present
Barbara A. Coppola	Duke Energy	Present
Hilary Davidson	Duke Energy	Present
Sidney Logan Echevarria	Duke Energy	Present
Tyler Fitch	Vote Solar	Present
Carrie Grundmann	Walmart	Present
Emily G Henson	Duke Energy	Present
Cindy Ray Keene	Duke Energy	Present
Clark C Kovacs	Duke Energy	Present
Robert Lawyer	SC ORS	Present
Len Anthony	Duke Energy	Present
Daniel J Maley	Duke Energy	Present
Anna Manevich	Duke Energy	Present
Indu Manogaran	SC ORS	Present
Jason D Martin	Duke Energy	Present
Kenneth L McCraw	Duke Energy	Present
Jay W Oliver	Duke Energy	Present
Miko Palmer	Duke Energy	Present
Danielle Peoples	Duke Energy	Present
Marcus Preston	Duke Energy	Present
Karen Ann Ralph	Duke Energy	Present
Dave Rogers	Sierra Club	Present
John Ruoff	SC Appleseed Legal Justice Center	Present
Anthony Sandonato	SC ORS	Present
Brandon Bickley	SC ORS	Present
Michael Seaman-Huynh	SC ORS	Present
Chris Sharpe	Duke Energy	Present
Evan W. Shearer	Duke Energy	Present
Heather Shirley Smith	Duke Energy	Present
Sam Spilman	Duke Energy	Present
Adam Stein	PG Renewables	Present
Gudrun Thompson	SELC	Present
Randy L Turner	Duke Energy	Present
Lizzy Underwood	Duke Energy	Present



Photo courtesy of the Post & Courier

# South Carolina Grid Improvement Plan 2019 Status Report Forum

December 2, 2020

## ■ Safety Moment and Meeting Logistics



<https://www.duke-energy.com/safety-and-preparedness/storm-safety/before-the-storm>

- Recap of Grid Improvement Plan (GIP) filings with the Public Service Commission
- Refresher on GIP Programs
- GIP Benefits
- Review 2019 SC GIP Status Report
- What's next for the GIP?

- Proposed Grid Improvement Plan in DEP and DEC Rate Case Docket No. 2018-318-E and 2018-319-E, respectively.
- Rate case stipulation was approved by Order of the PSC on May 21, 2019
- DEC and DEP filed a petition to establish an informational docket for the GIP on December 16, 2019 (Docket No. 2019-381-E)
- PSC created Non-Docketed Item ND-2020-28-E for GIP informational platform in August 2020
- Duke Energy filed GIP testimony and exhibits from rate cases in GIP informational docket on September 11, 2020
- DEC and DEP filed the 2019 SC GIP Status Report on October 26, 2020



# REFRESHER ON GIP PROGRAMS

		2019		2020		2021	
	3-Yr Total	DEC	DEP	DEC	DEP	DEC	DEP
<b>TOTAL</b>	<b>\$454,588</b>	<b>\$70,036</b>	<b>\$22,528</b>	<b>\$110,519</b>	<b>\$48,651</b>	<b>\$130,250</b>	<b>\$72,604</b>
<b>Cost Benefit &amp; Cost Effectiveness Justified</b>	<b>\$288,685</b>	<b>\$36,824</b>	<b>\$13,307</b>	<b>\$71,622</b>	<b>\$24,903</b>	<b>\$86,773</b>	<b>\$55,257</b>
Self-Optimizing Grid	\$96,546	\$19,566	\$5,890	\$23,253	\$7,087	\$22,745	\$18,005
Integrated Volt/VAR Control	\$45,605	--	--	\$15,195	\$1,000	\$28,410	\$1,000
Transmission H&R	\$31,150	\$4,780	\$550	\$11,010	\$2,800	\$8,010	\$4,000
Targeted Undergrounding	\$27,500	\$5,390	\$1,610	\$7,315	\$2,185	\$6,970	\$4,030
Energy Storage	\$24,481	\$281	\$84	\$45	\$13	\$16,045	\$8,013
Distribution Transformer Retrofit	\$22,996	--	\$3,600	--	\$7,396	--	\$12,000
Long Duration Int/High Impact Sites	\$22,840	\$5,267	\$1,573	\$7,700	\$2,300	--	\$6,000
T-Transformer Bank Replacement	\$10,002	--	--	\$4,813	\$1,438	\$2,313	\$1,438
Oil Breaker Replacements	\$7,565	\$1,540	--	\$2,291	\$684	\$2,280	\$771
<b>Rapid Tech Advancement: Cost-Effectiveness Justified</b>	<b>\$110,931</b>	<b>\$14,902</b>	<b>\$5,206</b>	<b>\$30,826</b>	<b>\$14,836</b>	<b>\$31,946</b>	<b>\$13,216</b>
Enterprise Communications	\$41,016	\$5,232	\$2,550	\$9,754	\$7,810	\$10,296	\$5,374
Distribution Automation	\$25,517	\$3,957	\$1,139	\$7,155	\$2,420	\$7,937	\$2,909
Transmission System Intelligence	\$21,823	\$1,348	--	\$7,748	\$2,314	\$7,581	\$2,832
Enterprise Applications	\$7,455	\$1,575	\$436	\$1,906	\$847	\$1,865	\$826
Integrated Systems Operations Planning	\$6,283	\$1,073	\$321	\$2,122	\$634	\$1,643	\$491
DER Dispatch Tool	\$3,800	\$616	\$184	\$770	\$230	\$1,540	\$460
Electric Transportation	\$3,200	\$1,100	\$500	\$1,100	\$500	--	--
Power Electronics for Volt/VAR Control	\$1,836	--	\$76	\$271	\$81	\$1,084	\$324
<b>Compliance: Cost Effectiveness Justified</b>	<b>\$54,972</b>	<b>\$18,311</b>	<b>\$4,015</b>	<b>\$8,072</b>	<b>\$8,912</b>	<b>\$11,531</b>	<b>\$4,131</b>
Physical & Cyber Security	\$54,972	\$18,311	\$4,015	\$8,072	\$8,912	\$11,531	\$4,131

Capital \$ in thousands (rounded to nearest thousand)



# Grid Improvement Initiative

## Building a smarter grid for YOU



EXPAND SOLAR AND  
RENEWABLES  
across a two-way,  
smart-thinking grid



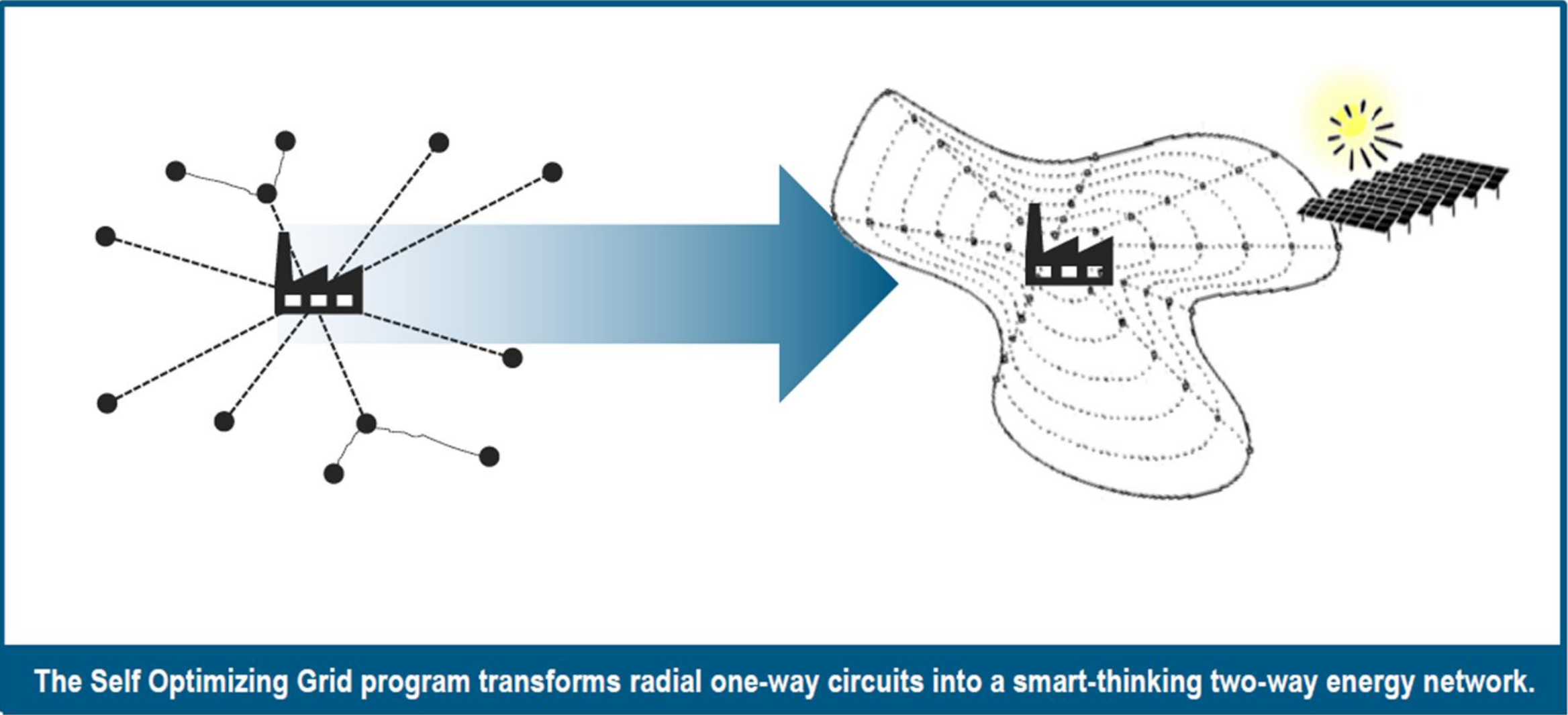
HARDEN THE GRID  
against physical  
and cyber impacts



GIVE MORE OPTIONS AND CONTROL  
over energy use and tools  
to save money



IMPROVE RELIABILITY  
to avoid outages and  
speed restoration





REVIEW OF 2019 SC GIP STATUS REPORT – TUG BENEFITS



Attachment D



- DEC/DEP Overview
- Self-Optimizing Grid (SOG) Results
- Targeted Underground (TUG) Results
- Transmission Results
- Communications Results

# REVIEW OF 2019 SC GIP STATUS REPORT – DEC RESULTS

No	Program	Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
1	Self Optimizing Grid		19,566,000		15,013,296		(4,552,704)		
5	Transmission Hardening & Resiliency		4,780,000		4,175,662		(604,338)	-	Program is executing as anticipated.
7	Transmission System Intelligence		1,347,500		1,233,638		(113,862)	-	Program is executing as anticipated.
8	Oil Breaker Replacement		1,540,000		1,278,728		(261,272)	-	Program is executing as anticipated.
9	Targeted Undergrounding		5,390,000	11.0	6,951,419	7.0	1,561,419	(4.0)	Unit cost is greater than estimated, resulting in fewer miles being executed.
10	Long Duration Interruptions		5,267,000		4,172,122		(1,094,878)	-	Projects started later than anticipated to allow for additional design.
11	Enterprise Communications		5,232,439		10,176,593		4,944,154	-	
12	Distribution Automation		3,957,000		4,580,942		623,942	-	
13	Enterprise Applications		1,575,000		1,400,104		(174,896)	-	Program is executing as anticipated.
14	Integrated System Operations Planning		1,073,000		343,812		(729,188)	-	Program start delayed for additional planning and design.
15	DER Dispatch Enterprise Tool		616,000		-		(616,000)	-	Program start delayed for additional planning and design.
17	Physical and Cyber Security - Transmission		15,395,000		19,802,447		4,407,447	-	Program is executing ahead of schedule.
18	Physical and Cyber Security - Distribution		2,915,551	54	522,214	-	(2,393,337)	(54)	
Distribution Total			45,591,990		43,160,501		(2,431,489)		
Transmission Total			23,062,500		26,490,476		3,427,976		
Total Grid Improvement Plan			68,654,490		69,650,977		996,487		

# REVIEW OF 2019 DEP SC GIP STATUS REPORT – DEP RESULTS

No	Program	Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
1	Self Optimizing Grid		5,889,307		7,171,252		1,281,945		
3	Distribution Transformer Retrofit		3,600,000	3,000	3,283,046	3,968	(316,954)	968	Current work completed at less than anticipated cost.
5	Transmission Hardening & Resiliency		550,000	-	30,774	-	(519,226)	-	Program reclassified some transmission projects from Hardening to System Intelligence.
7	Transmission System Intelligence		-	-	190,545	-	190,545	-	Program reclassified some transmission projects from Hardening to System Intelligence.
8	Oil Breaker Replacement		-	-	730,911	-	730,911	-	Program is executing ahead of schedule.
9	Targeted Undergrounding		1,610,000	4.0	1,525,137	1.3	(84,863)	(3)	Unit cost is greater than estimated, resulting in fewer miles being executed.
10	Long Duration Interruptions		1,573,000	-	2,465,546	-	892,546	-	Program costs are greater than anticipated.
11	Enterprise Communications		2,550,000	-	3,049,650	-	499,650	-	
12	Distribution Automation		1,139,000		494,374		(644,626)	-	
13	Enterprise Applications		436,000	-	406,302	-	(29,698)	-	Program is executing as anticipated.
14	Integrated System Operations Planning		321,000	-	95,300	-	(225,700)	-	Program start delayed for additional planning and design.
15	DER Dispatch Enterprise Tool		184,000	-	-	-	(184,000)	-	Program start delayed for additional planning and design.
16	Power Electronics for Volt/Var		76,000	-	-	-	(76,000)	-	Program start delayed for additional planning and design.
17	Physical and Cyber Security - Transmission		3,105,000	-	779,006	-	(2,325,994)	-	Program start delayed for additional planning and design.
18	Physical and Cyber Security - Distribution		910,044		336,747		(573,297)	-	
Distribution Total			18,288,351		18,827,354		539,003		Attachment D
Transmission Total			3,655,000		1,731,237		(1,923,763)		
Total Grid Improvement Plan			21,943,351		20,558,591		(1,384,760)		

# REVIEW OF 2019 DEP SC GIP STATUS REPORT – SOG RESULTS

No	Program	Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
1	Self Optimizing Grid		19,566,000		15,013,296		(4,552,704)		
DEC		Segmentation and Automation	6,444,000	100	4,272,999	93	(2,171,001)	(7)	Current work completed at less than anticipated cost.
		Modular Distrib Control Device POC	21,000	-	587	-	(20,413)	-	Program anticipated to start in 2020/2021.
		Capacity & Connectivity	4,135,000	11.0	3,370,875	10.9	(764,125)	(0)	Current work completed at less than anticipated cost.
		Substation Bank Capacity	6,376,000	-	4,412,162	-	(1,963,838)	-	Less substation capacity work required to support 2019 self-optimizing grid work.
		Advanced DMS	2,590,000	-	2,956,674	-	366,674	-	Program is executing as anticipated.
1	Self Optimizing Grid		5,889,307		7,171,252		1,281,945		
DEP		Segmentation and Automation	1,970,307	39	1,657,288	39	(313,019)	-	Current work completed at less than anticipated cost.
		Modular Distrib Control Device POC	-	-	-	-	-	-	
		Capacity & Connectivity	1,235,000	6.0	3,158,113	11.8	1,923,113	6	Program is executing ahead of schedule.
		Substation Bank Capacity	1,904,000	-	-	-	(1,904,000)	-	Less substation capacity work required to support 2019 self-optimizing grid work.
		Advanced DMS	780,000	-	2,355,851	-	1,575,851	-	Program is executing ahead of schedule.

# REVIEW OF 2019 DEP SC GIP STATUS REPORT – TUG RESULTS

No	Program	Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
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## DEC

9	Targeted Undergrounding		5,390,000	11.0	6,951,419	7.0	1,561,419	(4.0)	Unit cost is greater than estimated, resulting in fewer miles being executed.
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## DEP

9	Targeted Undergrounding		1,610,000	4.0	1,525,137	1.3	(84,863)	(3)	Unit cost is greater than estimated, resulting in fewer miles being executed.
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# REVIEW OF 2019 DEP SC GIP STATUS REPORT – TRANSMISSION RESULTS

No	Program	Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
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## DEC

7	Transmission System Intelligence		1,347,500		1,233,638		(113,862)	-	Program is executing as anticipated.
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## DEP

7	Transmission System Intelligence		-	-	190,545	-	190,545	-	Program reclassified some transmission projects from Hardening to System Intelligence.
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5	Transmission Hardening & Resiliency		550,000	-	30,774	-	(519,226)	-	Program reclassified some transmission projects from Hardening to System Intelligence.
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# REVIEW OF 2019 DEP SC GIP STATUS REPORT – COMMUNICATIONS RESULTS

Subcategory	Target	Units	Actuals	Units	Variance	Units	Program Notes
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## DEC

GridWAN	489,116	12	852,374	27	363,258	15	Project is executing ahead of schedule.
Mission Critical Transport	1,393,982	7	6,044,615	24	4,650,633	17	Project is executing ahead of schedule.

## DEP

GridWAN	716,000	3	692,554	19	(23,446)	16	Project executing ahead of schedule. Current work completed at less than anticipated cost.
Mission Critical Transport	304,000	1	1,120,631	15	816,631	14	Project executing ahead of schedule.

# QUESTIONS

Please submit questions through the meeting chat

- Follow up from this meeting
  - Will provide presentation deck
  - Post-event survey
- Will file 2020 SC GIP Status Report by mid 2021
- 2020 SC GIP Status Report webinar to follow that filing

